

MICHAEL FLINT BUCHANAN
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Education

MEd: Instructional Design & Development, The University of Georgia, Athens, GA
(currently enrolled)

MFA: Art (Sculpture & Digital Media), The University of Georgia, Athens, GA, 2001

BFA: Sculpture, Georgia State University, Atlanta, GA, 1997

Awards

2009

Certificate of Excellence

The Vesalius Trust for Visual Communications in the Health Sciences
Certificate of Excellence. Awarded for work on: *The Equine Colic CD*

2005

Frank Netter Award.

The Vesalius Trust Frank Netter Award for Special Contributions to Medical
Education. Awarded for work on: *The Glass Horse Project*

Professional Experience

2009–present

The University of Georgia, College of Veterinary Medicine
NIH SEPA Project, team member

A five-year partnership project among scientists and science educators at the
University of Georgia, Augusta State University, science teachers in high schools,
and the Biological Science Curriculum Study organization to develop inquiry-
based materials to entice high school students to pursue careers in science.

2005–present.

The University of Georgia, College of Veterinary Medicine
Instructional Technology Development Professional Associate

Responsibilities include the creation of instructional technology materials for the
use of Large Animal Medicine faculty. These may include animations, QTVRs,
videos, still images, websites, print materials, and audio.

2003–present.

Glass Horse Project LLC

Co-creator of *Elements of the Distal Limb CD* and *Equine Colic CD*

Elements of the Distal Limb, winner of 2005 Netter Award for Special Contributions to Medical Education, and Equine Colic, 2009 Certificate of Excellence winner, are unique interactive exploratory educational tools which present equine anatomy using 3D computer animation and models.

2001–2005.

The University of Georgia, College of Veterinary Medicine

Grant-funded position for the creation of rich media for self-guided learning of complex intracellular processes

Responsibilities included development of interactive media, computer animation, audio, and still images for use in a multi-year project focused on instruction of complex intracellular processes.

2001

Institute for Creative Explorations

Founding member of I.C.E

An interdisciplinary initiative for advanced research in the arts at The University of Georgia.

<http://ideasforcreativeexploration.com/>

1997–present

Freelance 3D animation and instructional product design for healthcare corporations including Pfizer, Fort Dodge Animal Health, and Bayer Pharmaceuticals.

1996–1997

Georgia State University, Sculpture Studio

Studio Technician

Provided instruction in the safe use of stationary and hand tools. Instituted tool storage, checkout, and labeling system. Maintained safe working environment in and around power tool areas.

1996

George Beasley. Atlanta, GA

Artist's assistant

Assisted with construction and installation of *Five Points Monument*, a three-story sculpture comprised of bronze and steel. Processes included welding, casting, and patination.

Grants

01/08/2010

Georgia Research Alliance, GA VentureLab proposal

Co-Investigator

An award to develop and commercialize interactive, inquiry-based 3D educational materials for use in both high school and undergraduate curricula that seeks to increase student performance and interest in science, technology, and engineering as potential careers.

9/1/2003–8/30/2005

United States Department of Agriculture Higher Education Challenge Grants Program.

Co-investigator

Improving the educational impact of 3D animations of signal transduction mechanisms with basic concept modules

9/1/2002–8/30/2003 United States Department of Agriculture Higher Education Challenge Grants Program.

Co-investigator

3D animations of beta-1 signal transduction mechanisms

9/1/2001–8/30/2002 United States Department of Agriculture Higher Education Challenge Grants Program.

Co-investigator

3D animations of alpha-1 signal transduction mechanisms

Instruction

2007–present

LAMS 5170, Digital Media In Your Practice. The University of Georgia, College of Veterinary Medicine.

Instructor

Introductory course for vet students. Subjects include: Photoshop Elements, Dreamweaver, and Premier Elements.

2005–present

Ad-Hoc instructional seminars for Large Animal faculty on the effective use of digital media. The University of Georgia College of Veterinary Medicine.

Instructor

Informal series of user-group meetings designed to guide faculty on the use and editing of imagery and video in lectures.

2004

Maya Users Group. Atlanta, GA

Guest presenter

(instruction continued)

2001

The University of Georgia Lamar Dodd College of Art
Student representative on faculty search committee

2000

New Media Institute, The University of Georgia
Student member on curriculum committee

1999–2001

The University of Georgia, Lamar Dodd College of Art
Graduate Instructor, 3D computer animation.

Publications

Poster Presentation: 06/09 NIH SEPA. Poster presentation of first year awardees, NIH SEPA projects. Washington DC.

Buchanan, et al "Using 3D Animations to Teach Intracellular Signal Transduction Mechanisms: Taking the Arrows Out of Cells" Journal of Veterinary Medical Education. Spring 2005, vol 32 (1).

Exhibitions

- 2001 Masters of Fine Art Exit Exhibition
Georgia Museum of Art
- 2000 Returning Masters
University of Georgia, Lamar Dodd School of Art
- 2000 Collaborative Installation: RACECAR
University of Georgia, Lamar Dodd School of Art
- 1997 Artists International Invitational
Atlanta, GA
- 1997 The Mattress Factory Biennial
Atlanta, GA
- 1997 The Art of Recycling
Fulton County Courthouse, Atlanta, GA
- 1997 One Night Stand
KAYA Gallery, Atlanta, GA
- 1996 Juried Student Exhibition
Georgia State University, Atlanta, GA
- 1996 Art About Town
Local Artists Showcase, Atlanta, GA
- 1995 Juried Student Exhibition
Georgia State University, Atlanta, GA

Software

Maya (9+ years)

Photoshop

Illustrator and FreeHand

AfterEffects

Premier

Flash

Dream Weaver

Director

Motion

Final Cut Pro

DVD Studio Pro

ProTools LE

Skills and Techniques

Woodworking: hand and power tools

Foundry: ferrous and nonferrous casting and finishing

Mold making: sand casting and investment.

Welding: arc, mig, and oxy-acetylene.

3D scanning and Rapid Prototyping techniques

References

Larry Millard, Professor, Sculpture. The University of Georgia, Lamar Dodd School of Art. lmillard@uga.edu 706-254-2591

Brad Gilleland, Medical Illustrator, Adjunct Professor, The University of Georgia College of Veterinary Medicine and Lamar Dodd School of Art. brad@gilleland.net 706-542-7089

Dr. Jacob Scherzer, Assistant Professor, The University of Georgia, College of Veterinary Medicine. Jakobs@uga.edu

Dr. Jim Moore, Professor, The University of Georgia, College of Veterinary Medicine. jmoore@uga.edu 706-542-3325